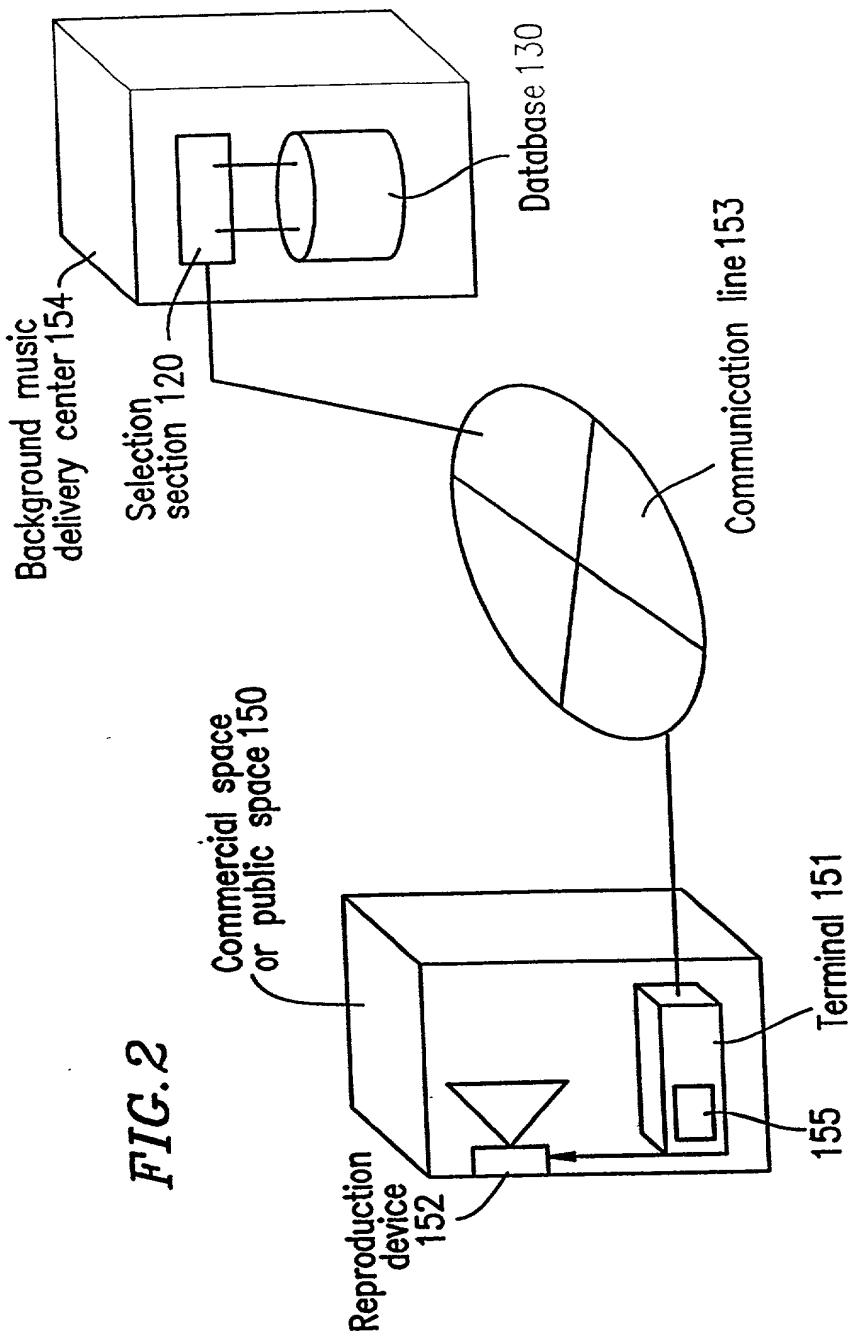


FIG. 2



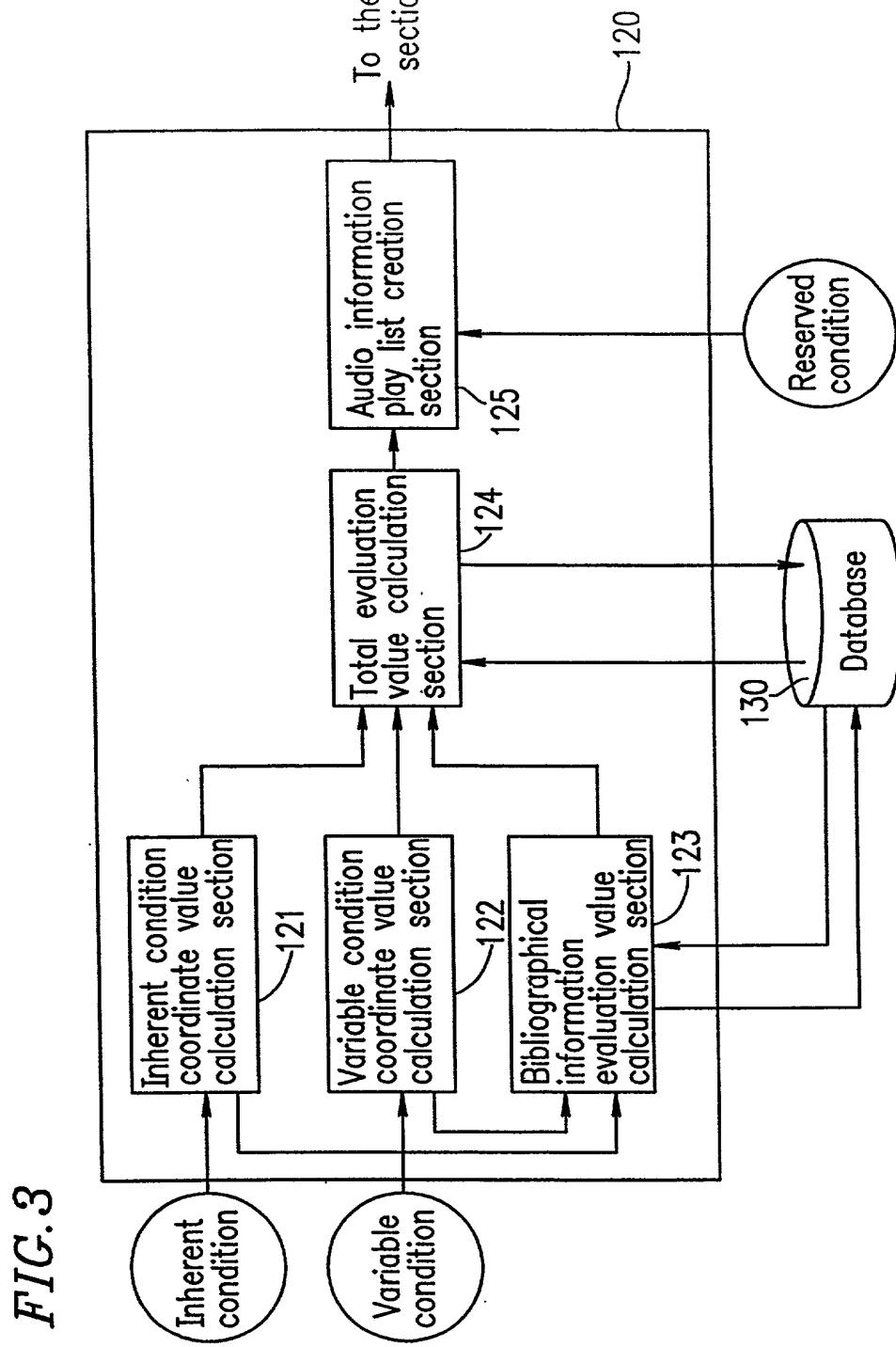
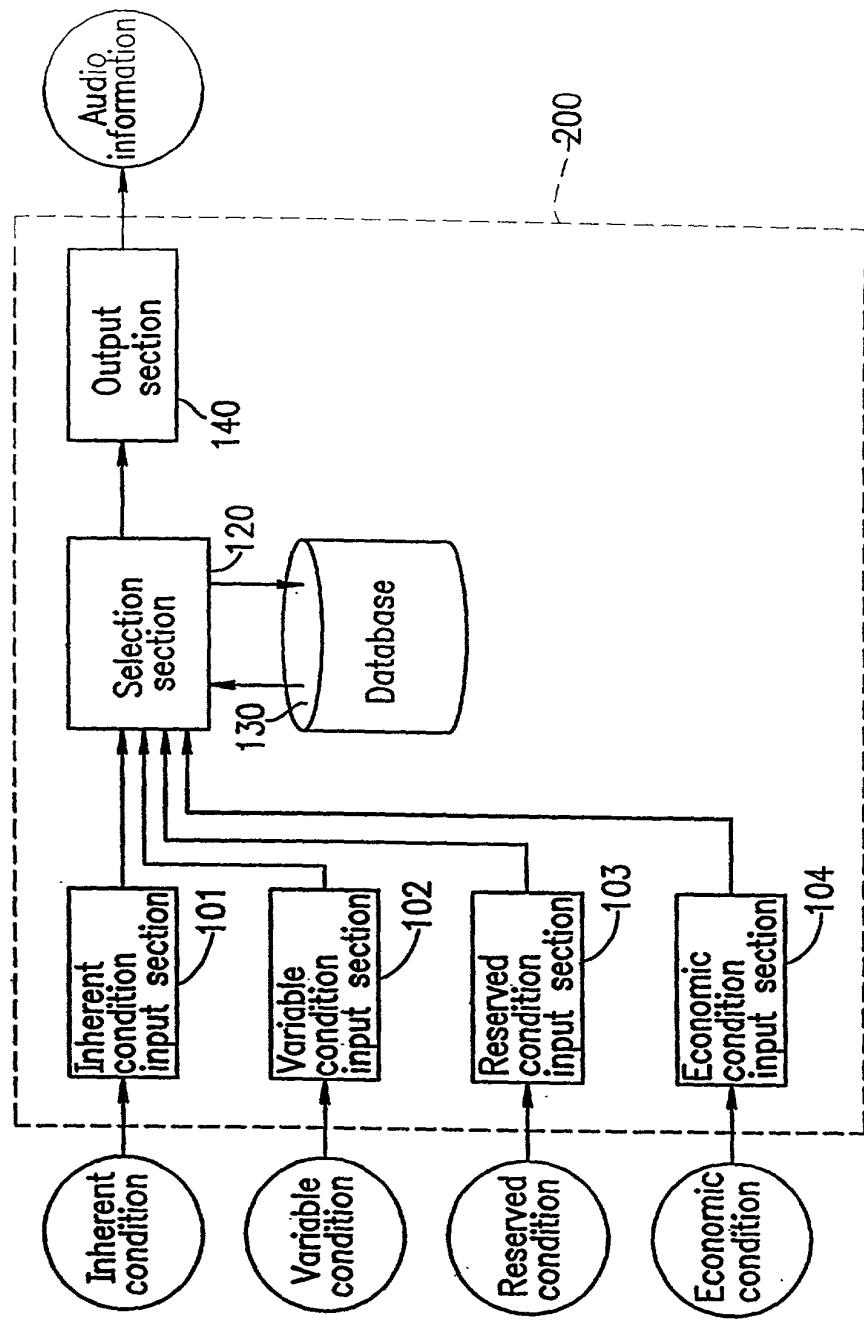


FIG. 3

FIG. 4



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FIG. 5A

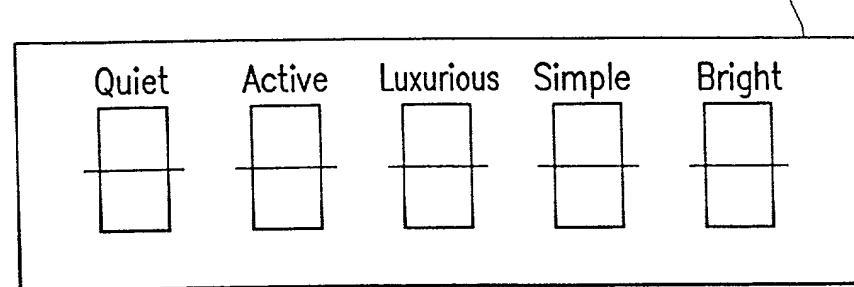
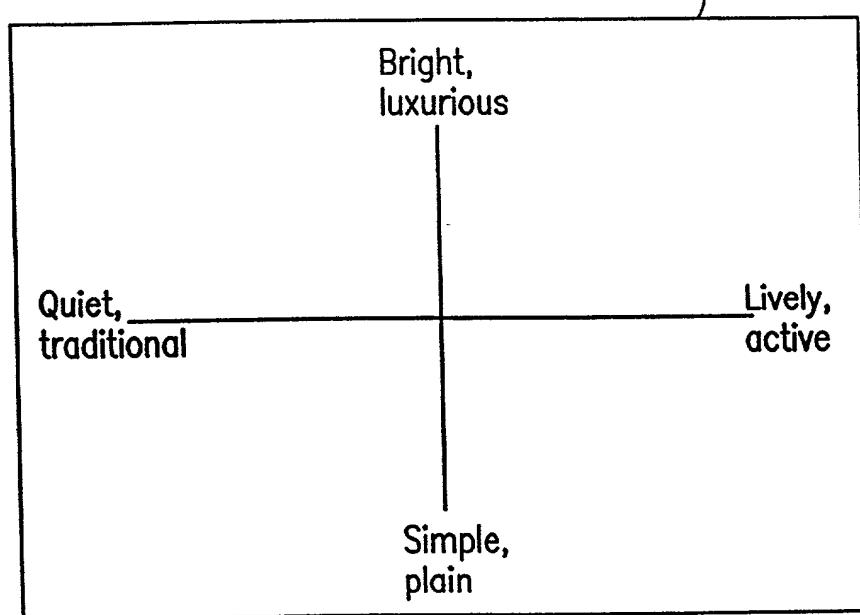


FIG. 5B



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FIG. 5C

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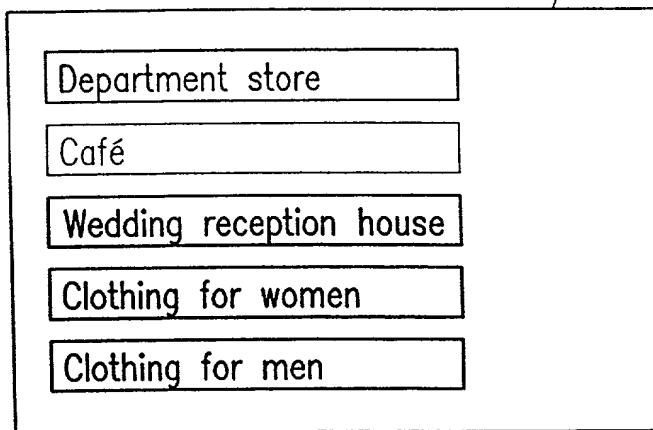


FIG. 6

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Data and time (m/d/y): March, 14, 2001, 2 p.m.

Day of the week: Saturday

Weather: Fine Selection

Temperature: 20 °C

Humidity: 40 %

Temperature-humidity index: Comfortable Selection

Crowdedness: Very crowded Selection

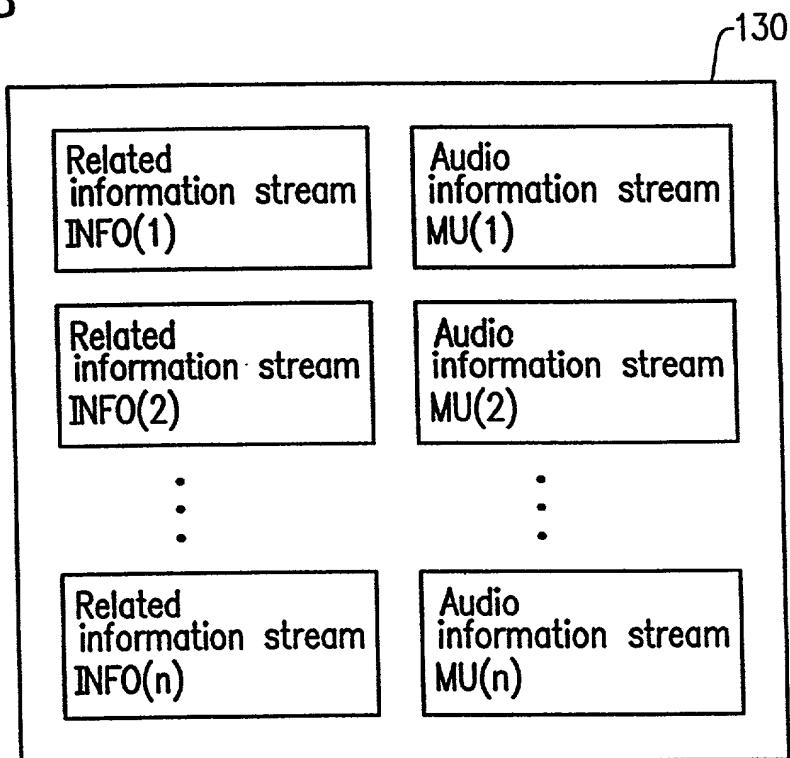
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FIG. 7

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Time signal:	12:00	
Point-of-purchase advertising:	12:01	Filename Op1
Original:	11:20	Filename Op10
Opening time:	10:00	
Closing time:	20:00	

FIG. 8



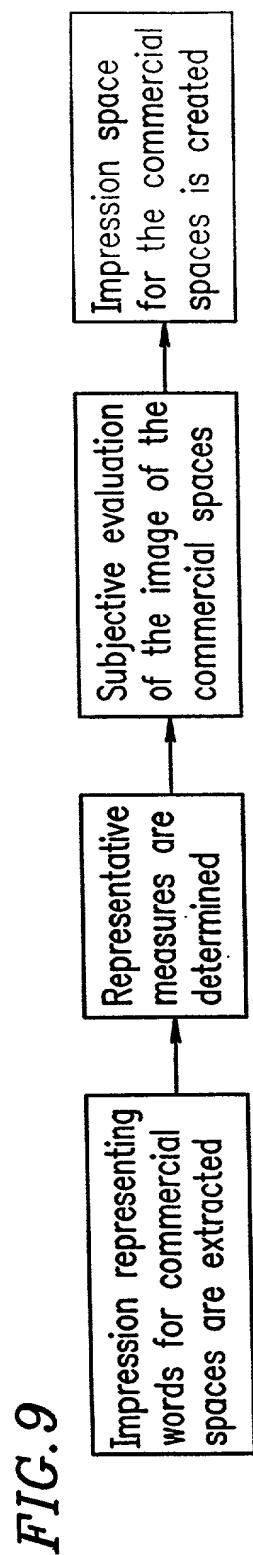


FIG. 9

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FIG. 10

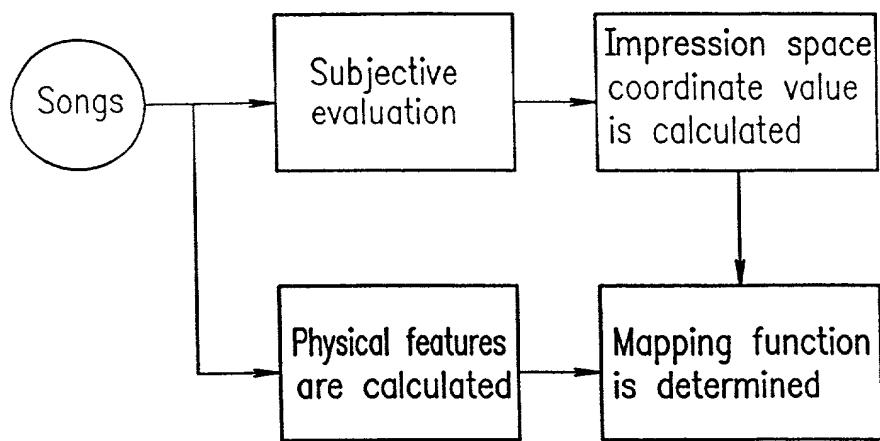


FIG. 11

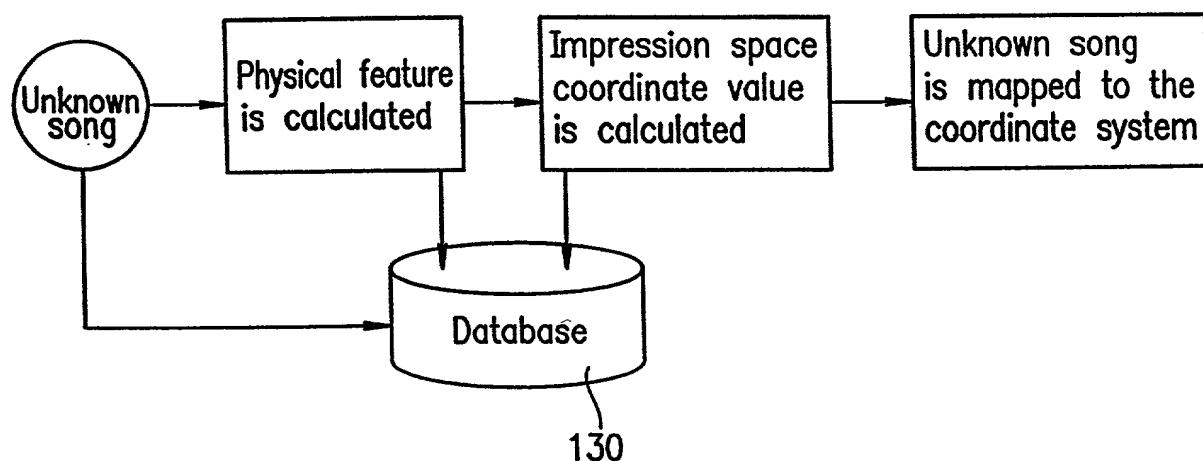
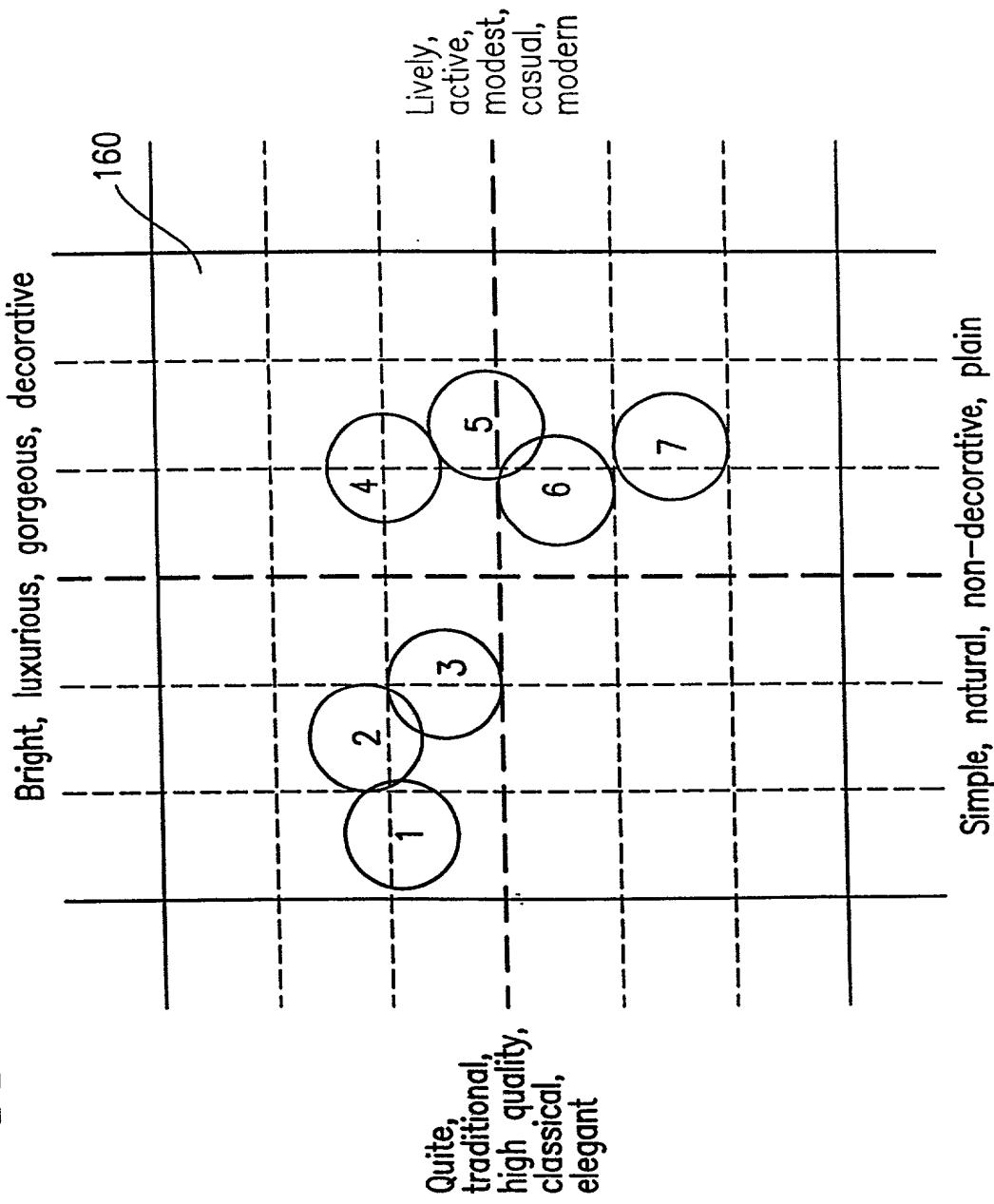


FIG. 12

Space ID	Store	Quiet	Active	Luxurious	Moderate price	Traditional	Casual	Modern	Bright
1	High quality store A	0.5	-0.5	0.4	-0.6	0.9	-0.4	-0.4	0.2
2	High quality store B	0.5	-0.5	0.6	-0.3	0.3	-0.2	-0.3	0.4
3	High quality store C	0	0	0.2	-0.2	0.4	-0.1	-0.2	0.2
4	High quality store D	-0.5	0.6	0.2	0.2	-0.3	0.3	0.7	0.7
5	Standard quality store A	-0.5	0.8	0.1	0.1	-0.5	0.8	0.7	-0.3
6	Standard quality store B	-0.5	0.6	-0.3	0	-0.3	0.5	0.1	-0.3
7	Moderate price store A	-0.9	0.4	-0.9	0.9	-0.9	1	0	-0.9

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FIG. 13



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FIG. 14

Space ID	Store	Space image	Coordinate value (x,y)
1	High quality store A	Formal, classical	(-2.4, +0.9)
2	High quality store B	Conservative, gorgeous	(-1.5, +1.2)
3	High quality store C	Elegant	(-1.0, +0.5)
4	High quality store D	Modern, rich	(+1.0, +1.0)
5	Standard quality store A	Young, casual	(+1.4, +0.1)
6	Standard quality store B	Simple, natural	(+0.8, -0.5)
7	Moderate price store A	Moderate price, convenient	(+1.2, -1.5)

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FIG. 15

Day of the week (ID)	Time (ID)		
	AM(1)	PM0 ~ 5(2)	PM5 ~ 8(3)
Monday through Thursday (WD)	Age group: 40s to 70s Very few customers	Age group: 20s to 50s Moderately crowded	Age group: 20s to 40s. Very crowded
Friday (WE)	Age group: 40s to 70s Very few customers	Age group: 20s to 50s Moderately crowded	Age group: 20s to 40s Very crowded
Saturday, Sunday, holiday (HD)	Age group: 20s to 70s Very crowded	Age group: 20s to 70s Very crowded	Age group: 20s to 50s Very crowded

FIG. 16

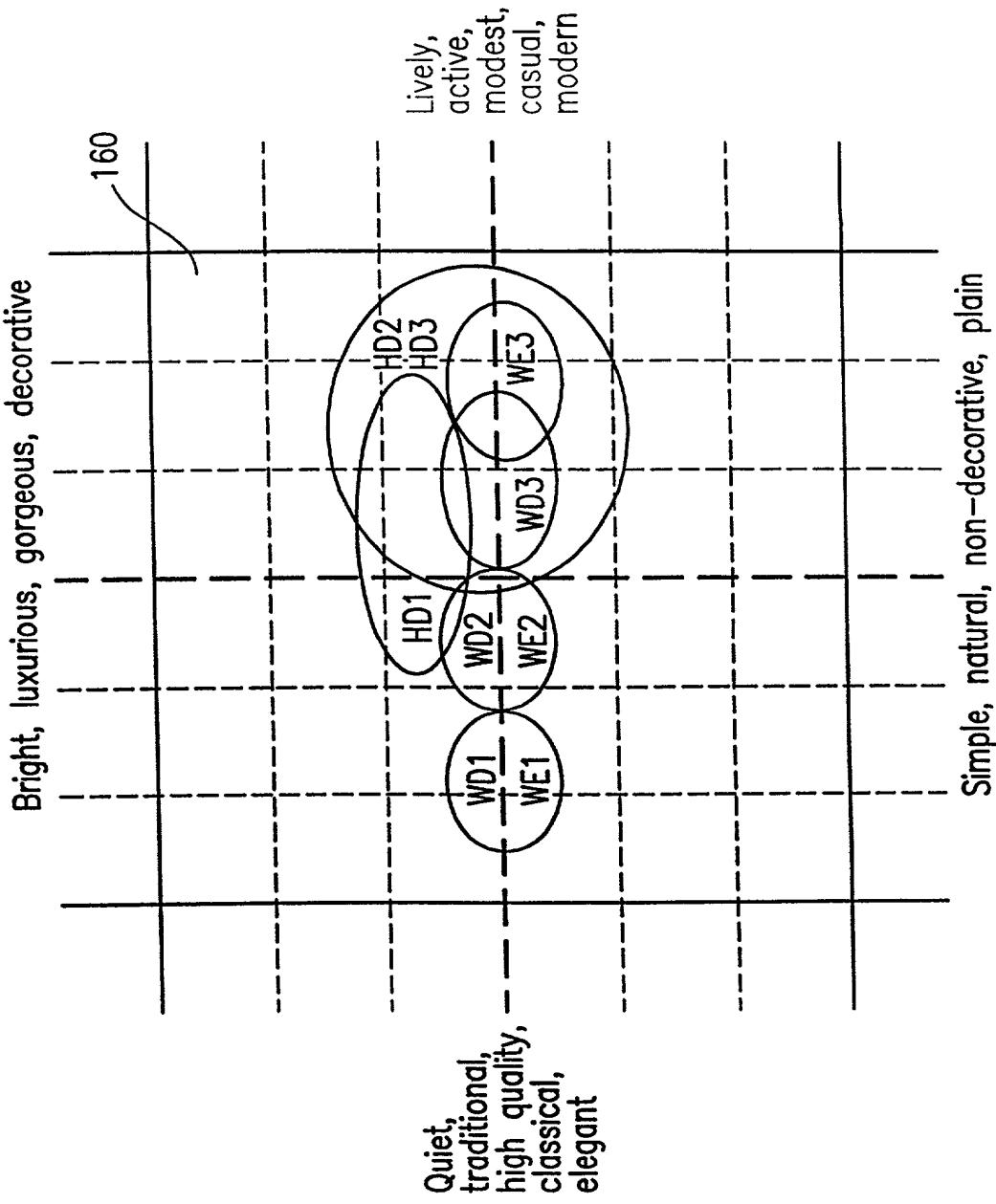
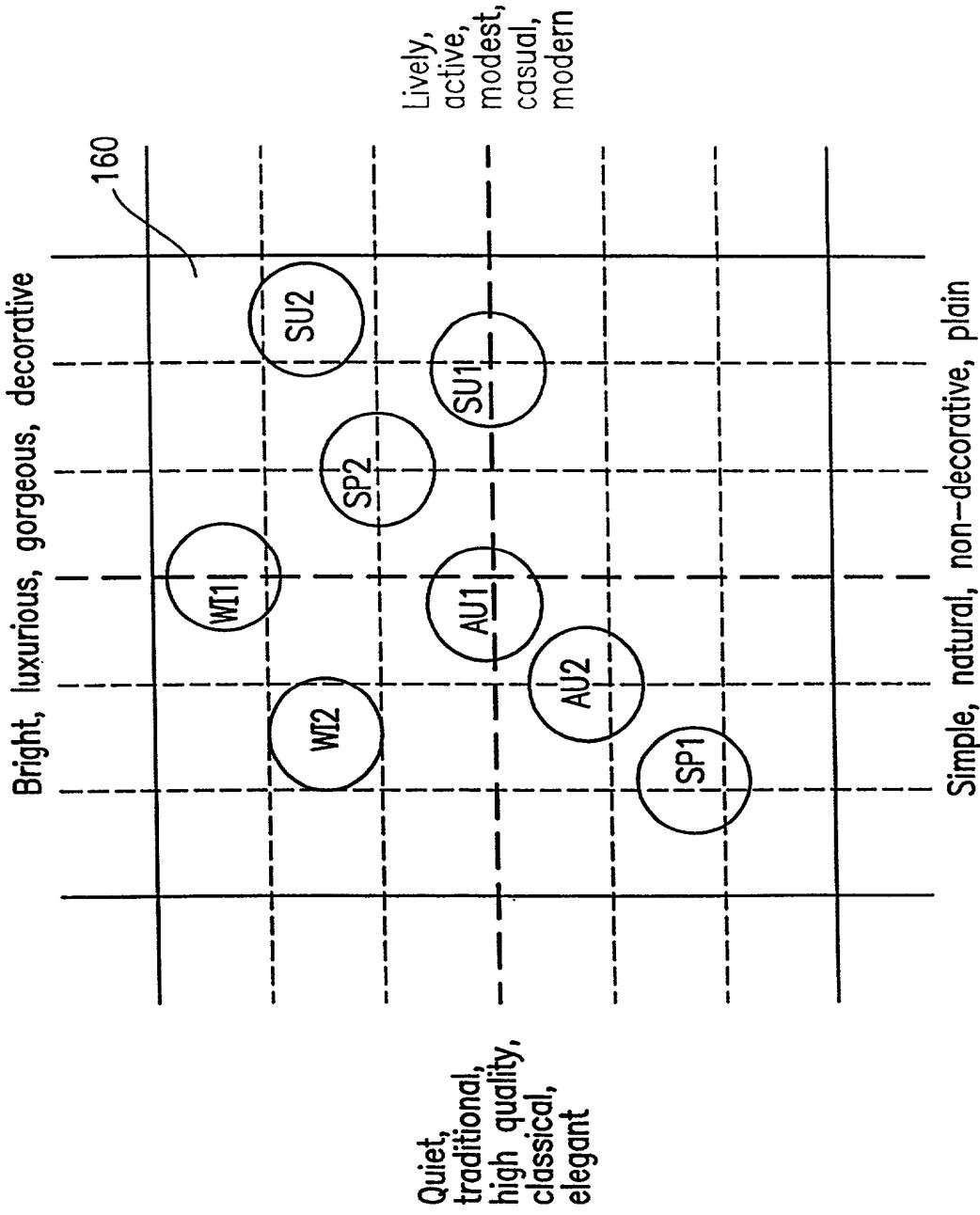


FIG. 17

Season ID	Season	Special season ID	Special season
SP2	Spring	SP2A	April 1 to April 10 Entrance ceremony
SU1	Early summer	SU1A	May 5 Children's day
SU2	Summer		
AU1	Autumn	AU1A	October 10 Athletics meet
AU2	Late autumn		
WI1	Winter, end of the year	WI1A	December 15 to December 25 Christmas
WI2	Winter, beginning of the year	WI2A	December 26 to December 31 End of the year
SP1	Early spring	SP1A	January 1 to January 15 Beginning of the year
ALL	All the seasons	SP1B	March 3 Girls' Festival
			March 1 to March 20 Graduation ceremony

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FIG. 18

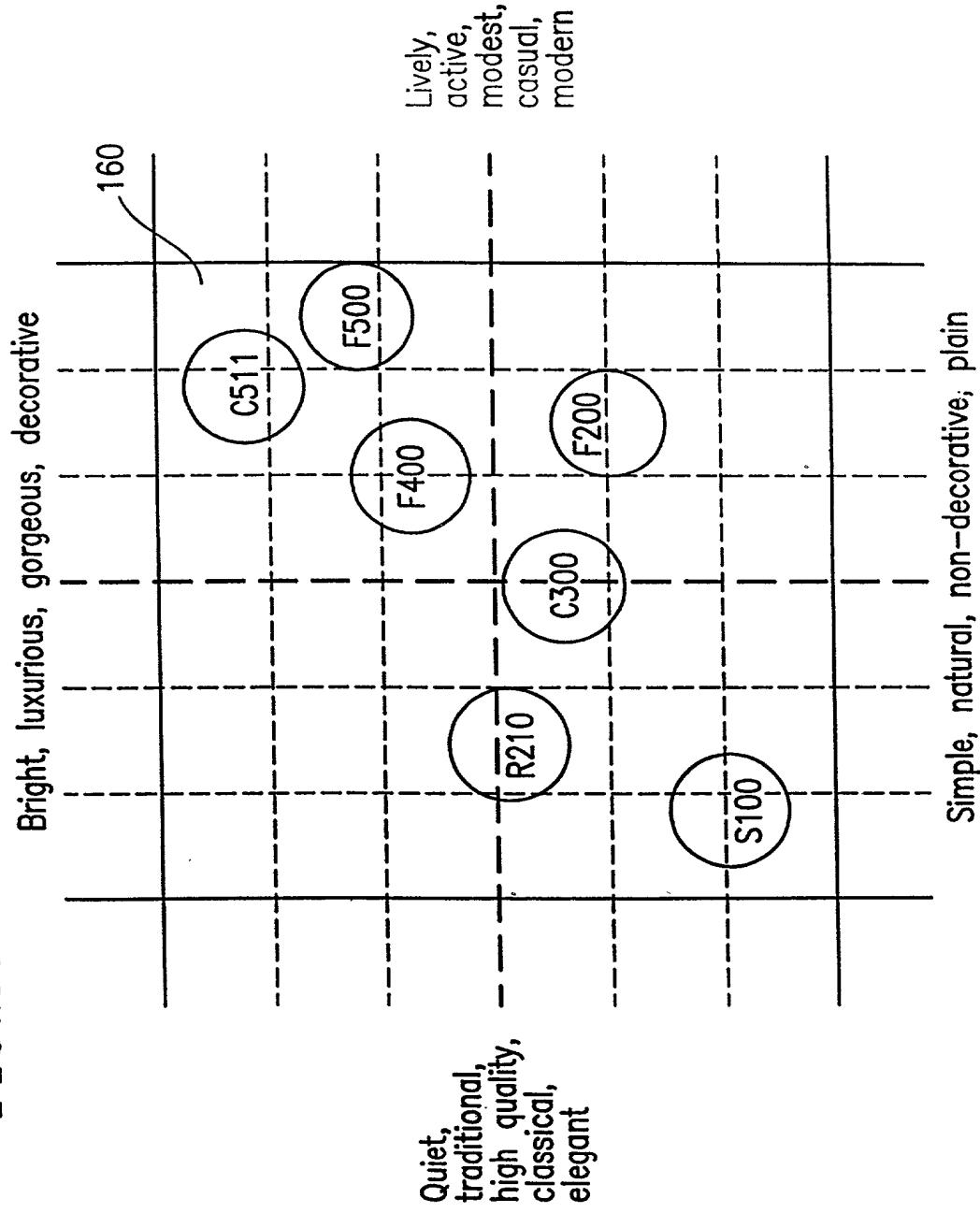


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FIG. 19

Weather (ID)	Temperature (ID)	Discomfort index (ID)
Rain (R)	$t < 0(1)$	Comfortable (00)
Cloudy (C)	$0 < t < 10(2)$	Slightly uncomfortable (10)
Fine (F)	$10 < t < 20(3)$	Uncomfortable (11)
Snow (S)	$20 < t < 30(4)$	
	$30 < t(5)$	

FIG. 20



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FIG. 21

Space ID	Adjustment information for each musical genre						
	Orchestra	Big band jazz	Classic, string music	Piano solo	Popular	Jazz	Fusion
1		1/2	1/2	2	2	2	2
2	1/2	1/2	1/2	1/2	2	2	2
3	1/2	1/2	1/2	1/2	1/2	2	2
4				1/2	1/2	1/2	1/2
5	2	2	+∞	+∞	1/2	1/2	1/2
6	+∞	+∞	+∞	+∞	1/2	2	1/2
7	+∞	+∞	+∞	+∞	1/2	2	1/2

FIG. 22

Space ID	Related bibliographical information	Gain information
1001 Wedding reception house	Farewell, solitude, death	+∞
1005 Department store	Bitter, grudge, sorrow	+∞
	Disease, pain	+∞
1001 Wedding reception house	Bride, just married	0
1022 Toy section	Toy, kids, babies, infants, nursery songs	0

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FIG.23

Season ID	Related bibliographical information	Adjustment information
SU2	Singers associated with summer	
	Bands associated with summer	0
	Summer, sea, sun	
	Hot, fighting spirit, tropics	
SP1A	Girls' Festival	0
SU1A	Carp streamer	0
AU1A	Athletics meet, physical training	0
WI1, WI2	Singers associated with winter	1/2
WI1A	Christmas	0
WI2A	Japanese music	1/2
	Early spring, new year, beginning of the year	0
WI1B	"Auld Lang Syne"	0
WI1B	"Symphony No. 9" by Beethoven	0
SP1B	Songs associated with spring	1/2
WD1, WE1	Morning, waking	1/2
HD1	Night, midnight	+∞
WD2, WD3	Morning ,waking	+∞
WE2, WE3	...	
HD2, HD3	...	

FIG. 24

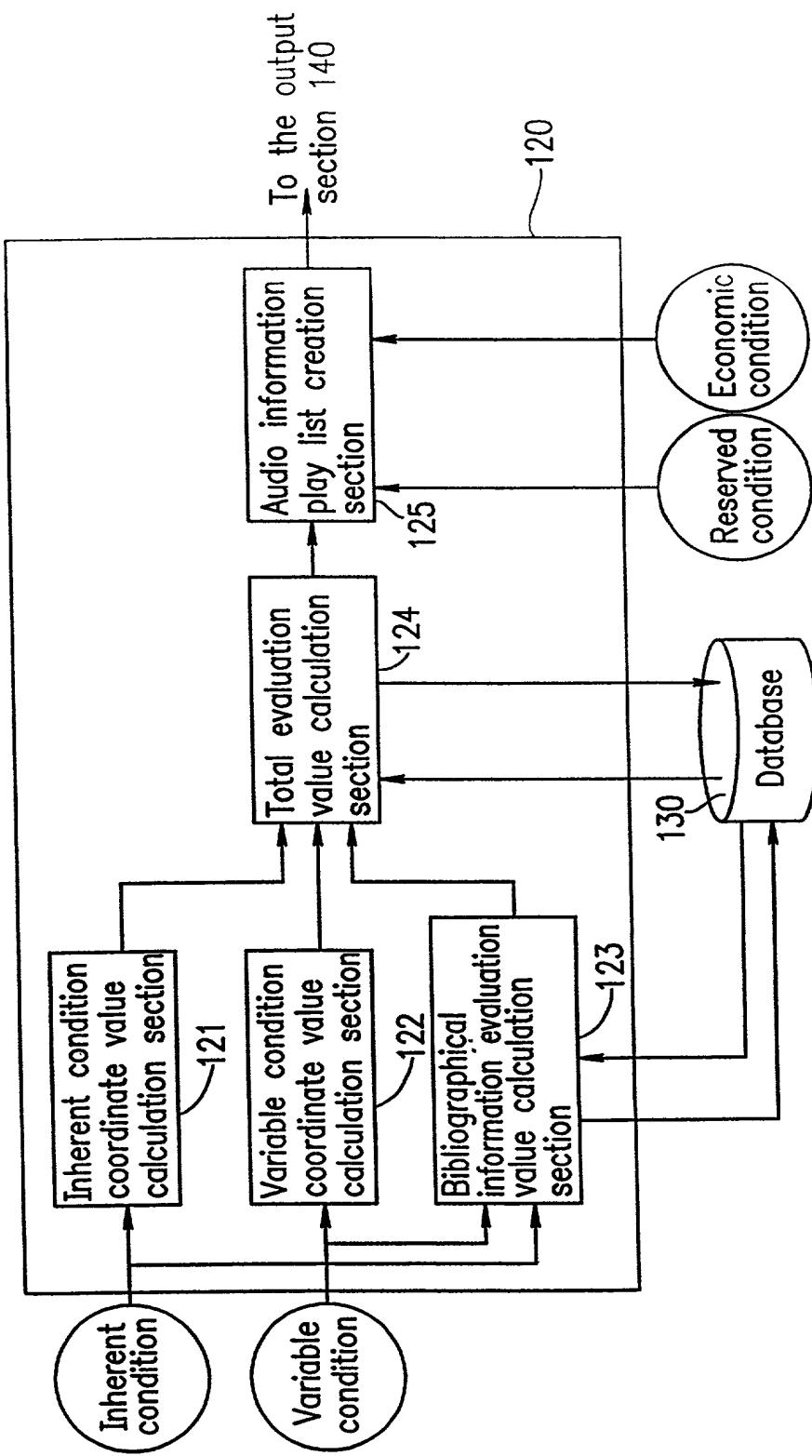


FIG. 25

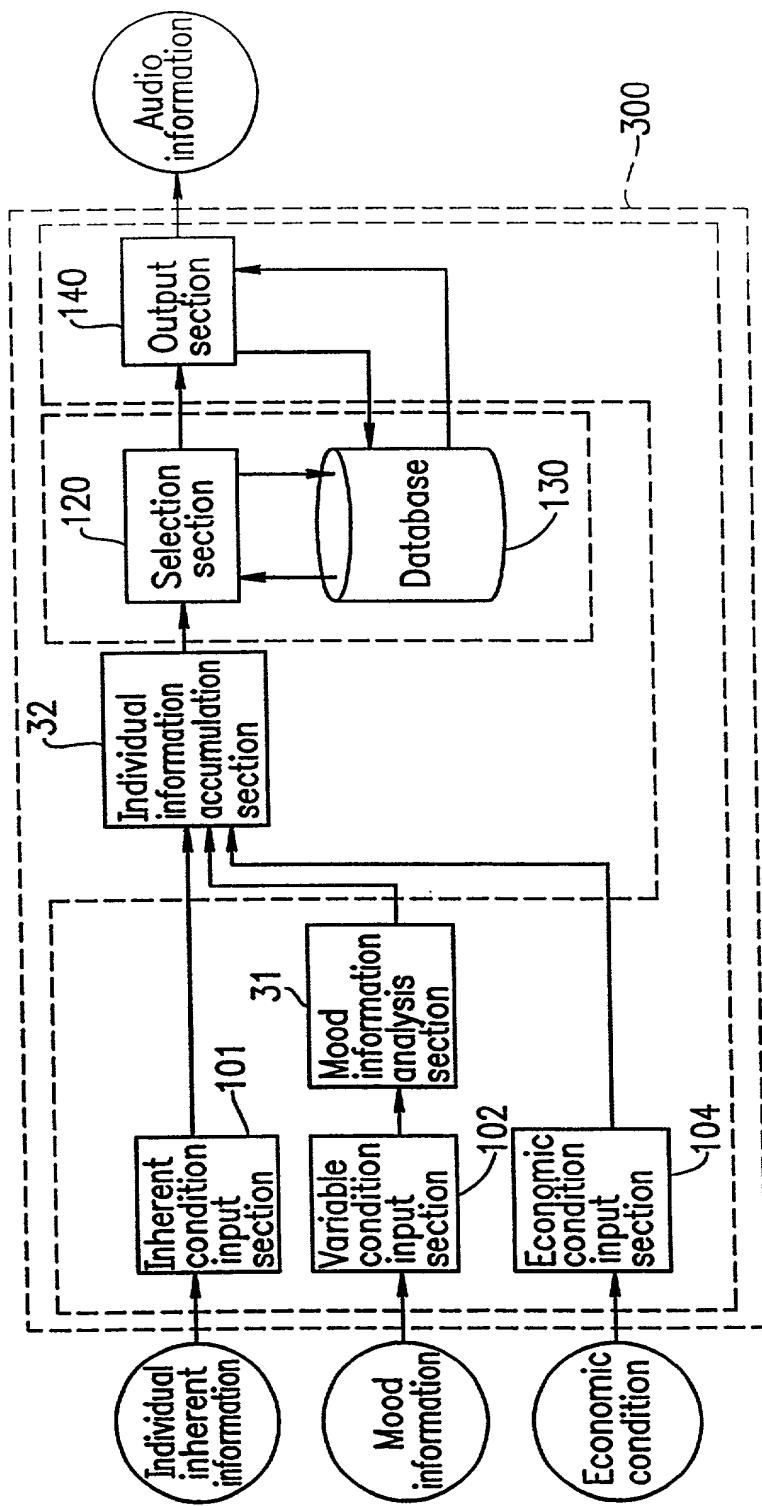


FIG. 26

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Title: AUDIO INFORMATION
PROVISION SYSTEM
Inventors: Michiko OGAWA, et al.
Docket No.: 29288.5000

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Desired service cost ¥			
Guidelines	Cost	Duration	Number of songs
Calm	¥ 200	5 minutes	1 ~ 2
Bright and happy	¥ 500	15 minutes	2 ~ 4
Sentimental	¥ 1000	30 minutes	3 ~ 6
Moving	¥ 2000	60 minutes	5 ~ 15
Vigorous and high-spirited	¥ 3000	100 minutes	10 ~ 20
Light-footed			
Curious and eccentric			
Southern			
...			

Image check list of desired music	
<input type="checkbox"/> Calm	<input checked="" type="checkbox"/> Bright and happy
<input type="checkbox"/> Moving	<input type="checkbox"/> Sentimental
<input type="checkbox"/> Vigorous and high-spirited	<input type="checkbox"/> Light-footed
<input type="checkbox"/> Curious and eccentric	<input type="checkbox"/> Southern
<input type="checkbox"/> ...	

Musical genre check list	
<input type="checkbox"/> Classic	<input type="checkbox"/> Jazz
<input type="checkbox"/> Pop (Western)	<input type="checkbox"/> Pop (Japanese)
<input type="checkbox"/> Pop (Asian)	<input type="checkbox"/> Rock
<input type="checkbox"/> New age	<input type="checkbox"/> Screen music
<input type="checkbox"/> Bossa nova	<input checked="" type="checkbox"/> ...

Your registration data	
Name: Taro MATSUSHITA	Family structure: Parents, brother, sister
Sex: Male	Music you like: classic, jazz, pop, screen music, new age, techno
Date of birth: March 3, 1991	Music you do not like: rock, "enka"
Birthplace: Saitama Prefecture	Musical experience: Played the trumpet in a brass band
Address: Osaka	Credit card number: 1468-3456-7334-5343
Occupation: Office worker	

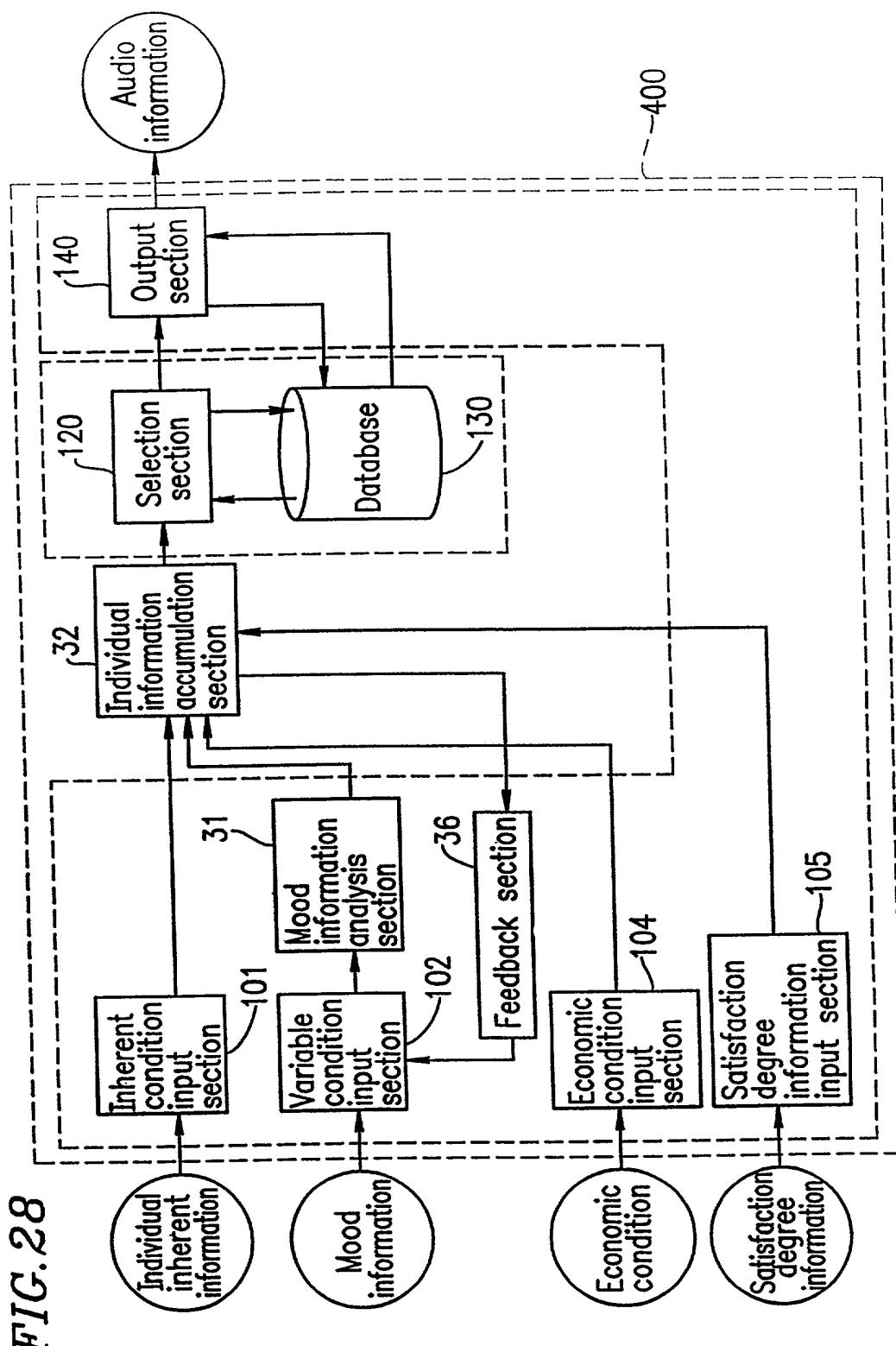
FIG. 27

Image check list of desired music	
<input checked="" type="checkbox"/>	Calm
<input checked="" type="checkbox"/>	Bright and happy
<input type="checkbox"/>	Sentimental
<input type="checkbox"/>	Moving
<input type="checkbox"/>	Vigorous and high-spirited
<input type="checkbox"/>	Light-footed
<input type="checkbox"/>	Curious and eccentric
<input checked="" type="checkbox"/>	Southern
⋮	⋮

Input of images of music by the user

Value weighted by coefficients using musical representation factor	
Power factor	$a=0.1$
Calmness factor	$b=0.8$
Sadness factor	$c=0.0$
"Esthetic" factor	$d=0.5$
"Metallic" factor	$e=0.1$
Softness factor	$f=0.2$
Brightness factor	$g=1.0$
Space factor	$h=0.5$
⋮	⋮

Analysis result provided by the mood information analysis section 31



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FIG.29

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- The following songs will satisfy your demands within your budget of 500 yen.

Title	Performer	Duration
1. Song M	Singer S	5'30"
2. Song Mn	Player Ss	4'30"
3. Song MM	Singer SS	5'00"

- Do you want to sample them?

Yes
 No

- If you do not like some of the songs after sampling them, they will be removed from the list. We will provide different songs after searching again.

Title	Satisfied	Not satisfied
1. Song M	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Song Mn	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Song MM	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- Tell us how strongly you feel Song M fits the following images.

Calm
Bright and happy
Southern

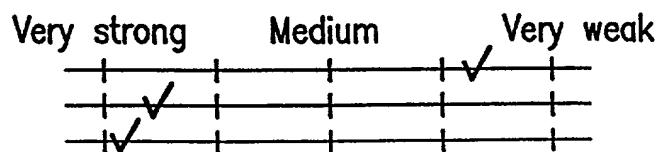


FIG. 30

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- We provided you with the following bossa nova songs the last time.

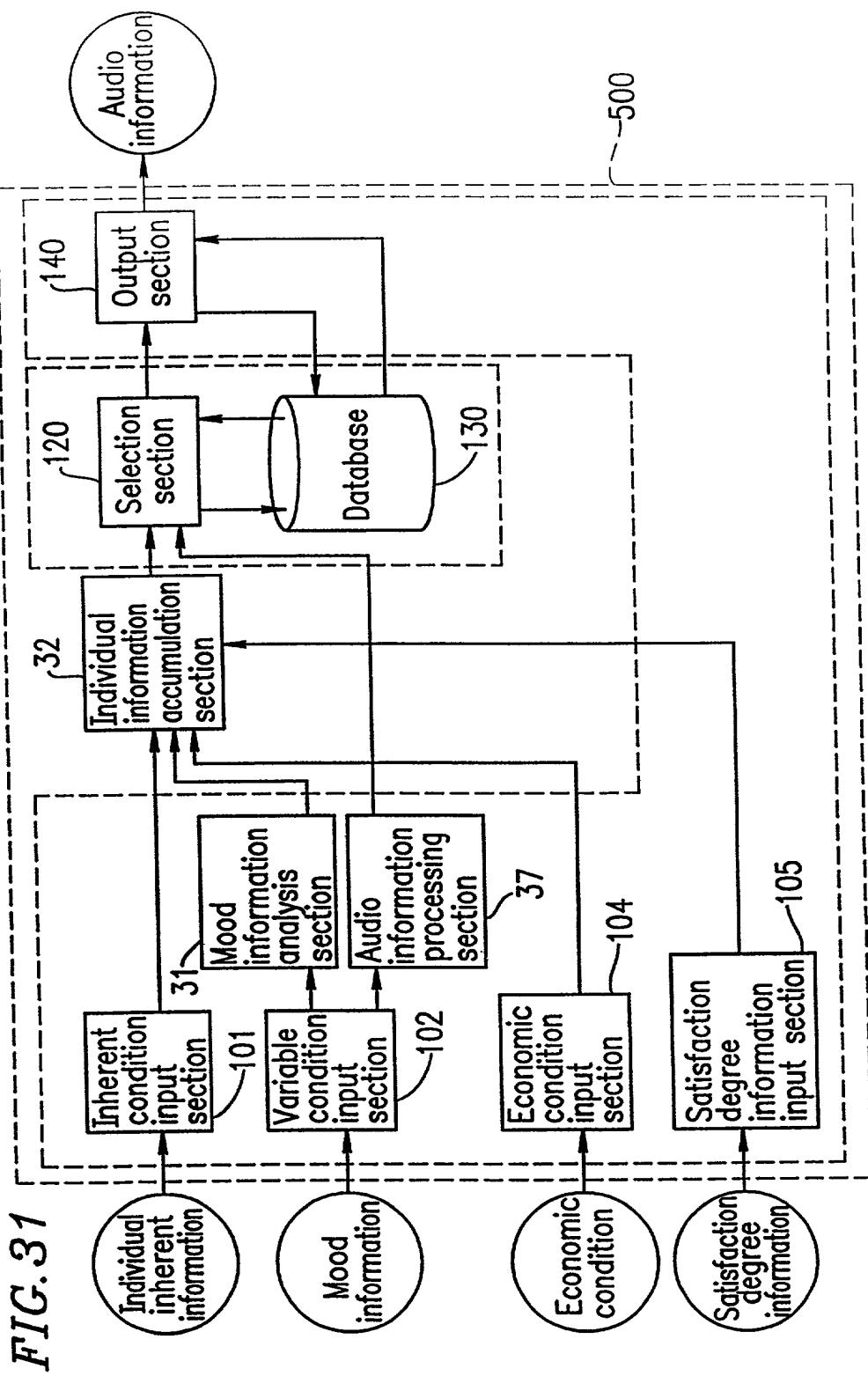
Title	Performer	Duration
1. Song M	Singer S	5'30"
2. Song Mn	Player Ss	4'30"
3. Song MM	Singer SS	5'00"

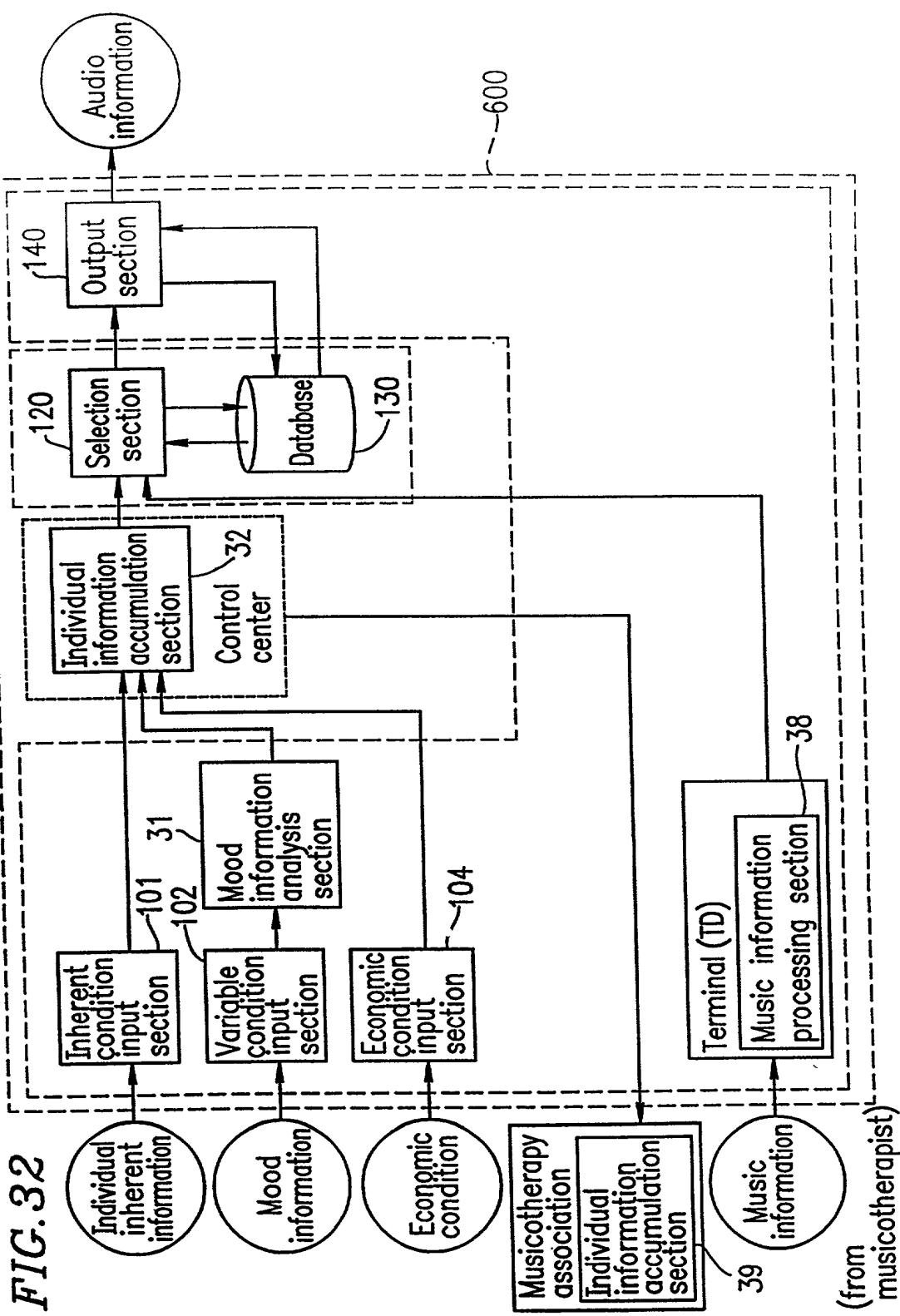
- Do you want songs other than the above?

Yes
 No

- Latin genres similar to bossa nova you desired the last time are added to your list

Musical genre check list	Musical genre check list added
<input type="checkbox"/> Bossa nova	<input type="checkbox"/> Afro-Cuban
<input type="checkbox"/> Classic	<input type="checkbox"/> Son
<input type="checkbox"/> Jazz	<input type="checkbox"/> Habanera
<input type="checkbox"/> Pop (Western)	<input type="checkbox"/> Samba
<input type="checkbox"/> Pop (Japanese)	<input type="checkbox"/> Rumba
<input type="checkbox"/> New age	<input type="checkbox"/> Salsa
<input type="checkbox"/> Pop (Asian)	⋮
<input type="checkbox"/> Screen music	⋮
⋮	
⋮	





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FIG. 33

If you would like musicotherapy,
please tell us your current physical
and mental states.

Insomnia
 Unstable
 Manic-depressive
 Nervous
 Scared
 Unwilling to do anything
.....

Desired cost for one
session of musicotherapy

<input type="checkbox"/>	2000 yen	30 minutes
<input type="checkbox"/>	3000 yen	45 minutes
<input type="checkbox"/>	4000 yen	60 minutes
<input type="checkbox"/>	5000 yen	90 minutes

FIG. 34

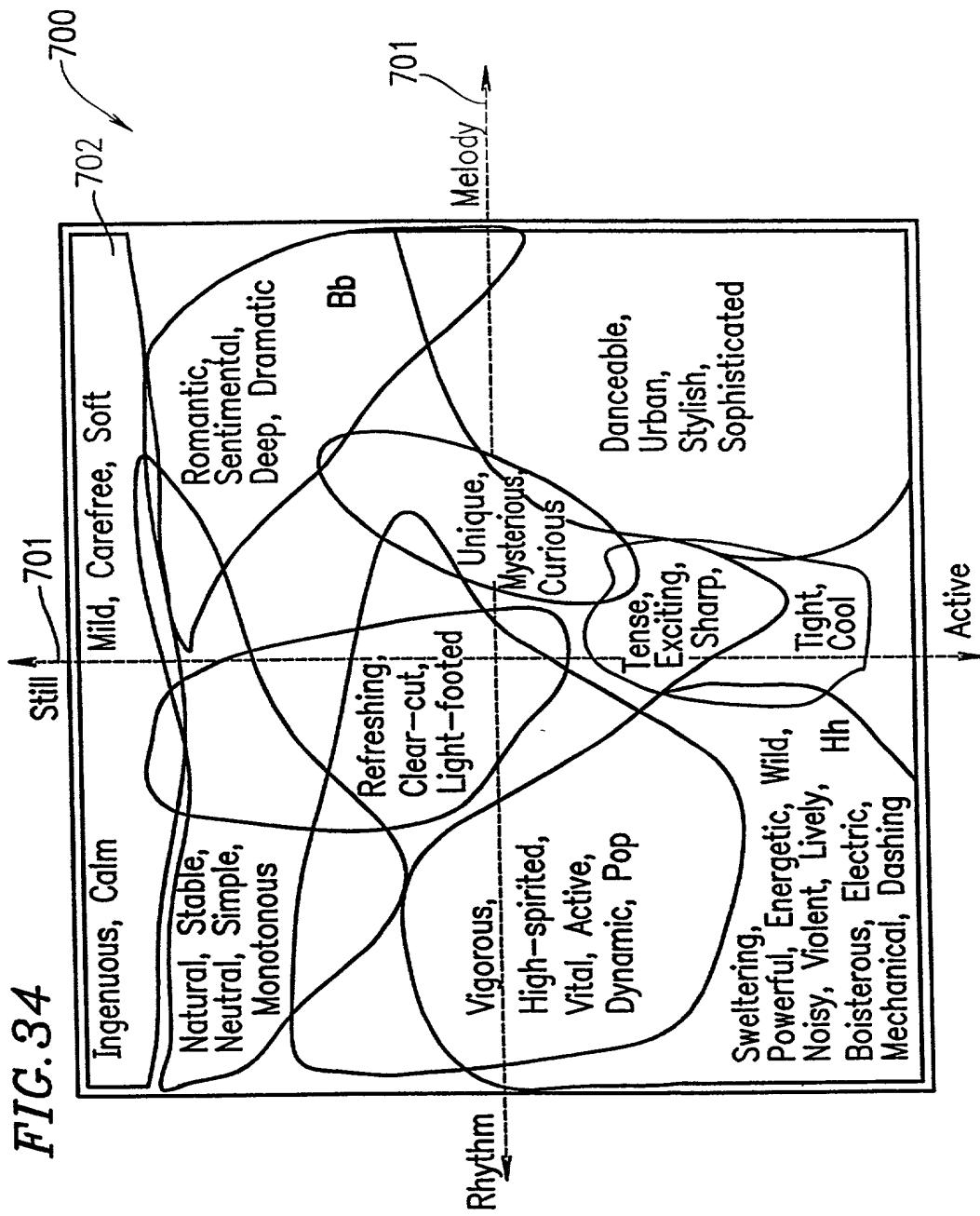


FIG.35

1	<u>Powerful</u> , violent, noisy, dashing, wild <u>Calm</u> , mild, carefree
2	<u>Vigorous</u> , pop, dynamic, high-spirited, vital, active <u>Non-vigorous</u> , deep, sentimental, romantic
3	<u>Refreshing</u> , light-footed, clear-out <u>Sweltering</u> , boisterous, lively
4	<u>Natural</u> , simple, stable, neutral, monotonous <u>Dramatic</u> , urban, sophisticated, stylish
5	<u>Sharp</u> , cool, tight, tense, exciting <u>Soft</u>

FIG.36

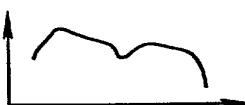
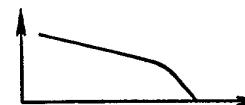
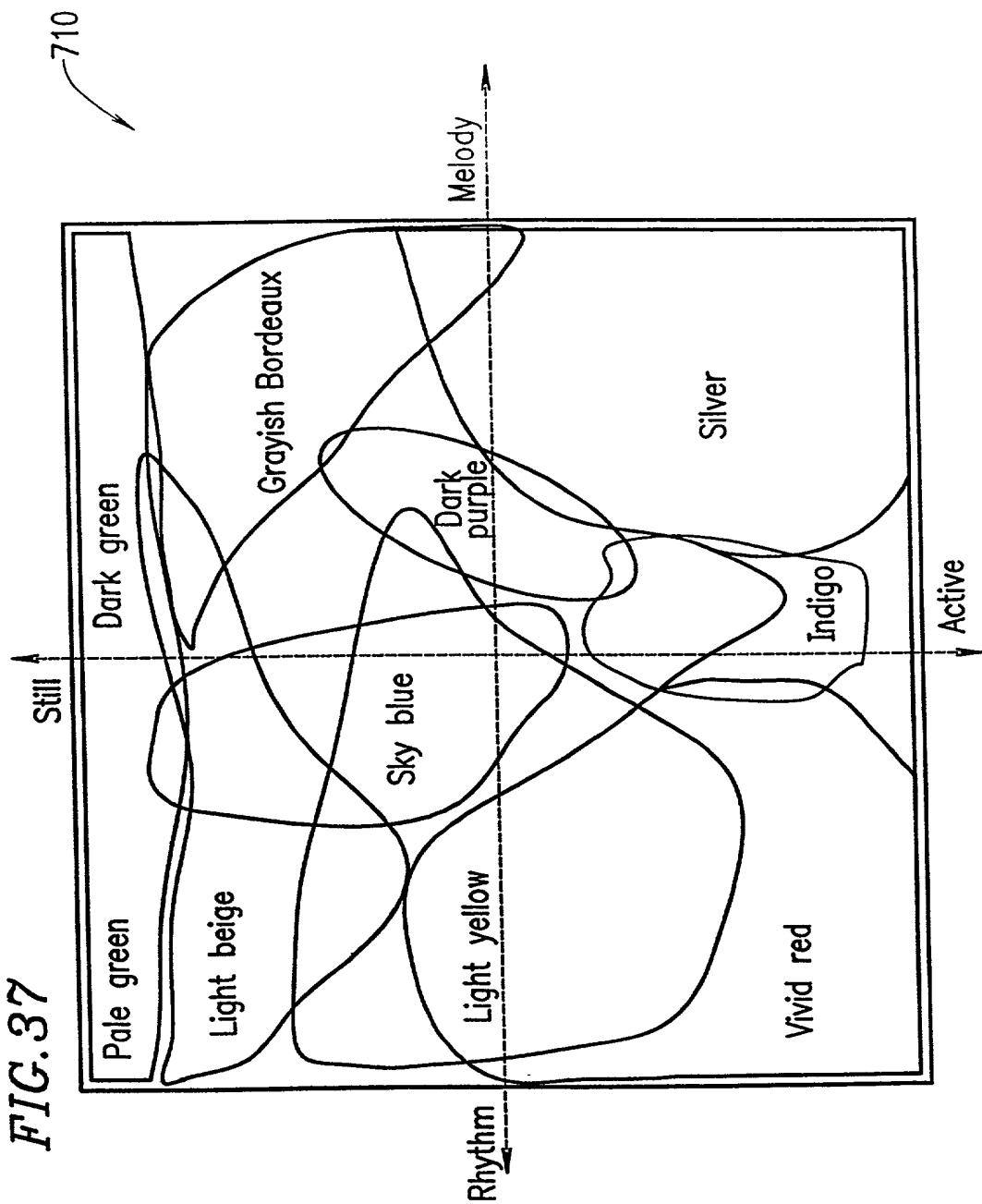
	Audio information stream 1	Audio information stream 2
Tempo	140	70
Frequency characteristics		
Formation of instruments	8 Electric base, 2 electric guitars, drums, percussion, synthesizer, vocal, trumpet	2 Piano, tenor sax
Average pitch	2500	800
Fluctuation of tempo	$1/f^2$	$1/f$
Image part	Hh	Bb

FIG. 37



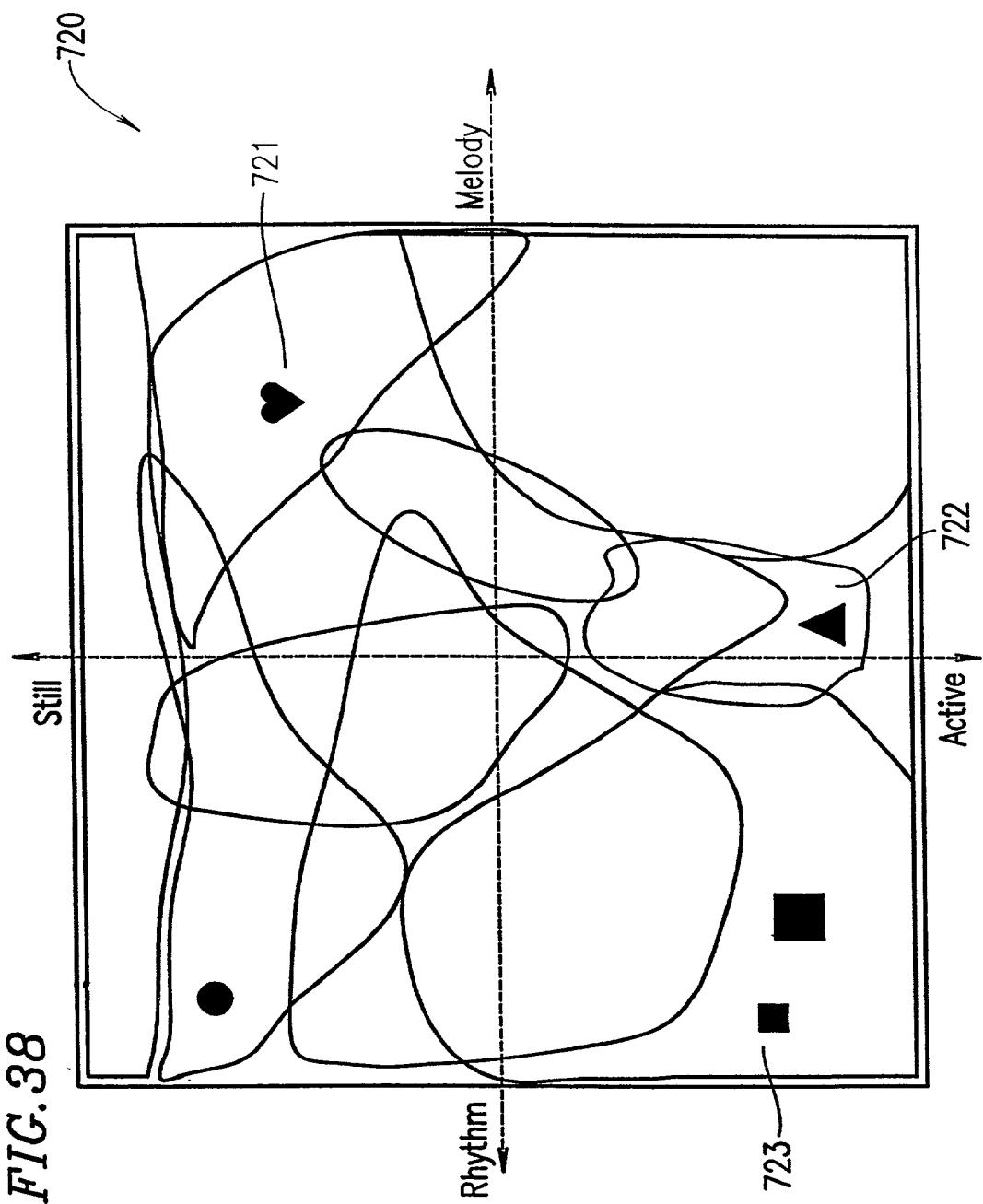


FIG. 38

FIG. 39

